

A Strategy to Rebalance the Army MI Force

Bounding the Challenge of Intelligence Support to Army Full-spectrum Operations...

As of: 15 Dec 09

A Strategy to Rebalance the Army MI Force



"Rebalance DoD programs in order to institutionalize and enhance the nation's capabilities to fight existing wars as well as the most likely future conflicts..."

Hon Robert Gates, SecDef April 2009

...Stated SecDef Priorities: MRAPs, ISR, MEDEVAC

"Our test must not be "Have we changed?" It must be "Have we changed enough?" Everything is on the table except our core values."





Strategy Key Tenets

Purpose: Provide a holistic, comprehensive Army MI Force Strategy that optimizes intelligence support to Army full-spectrum operations.

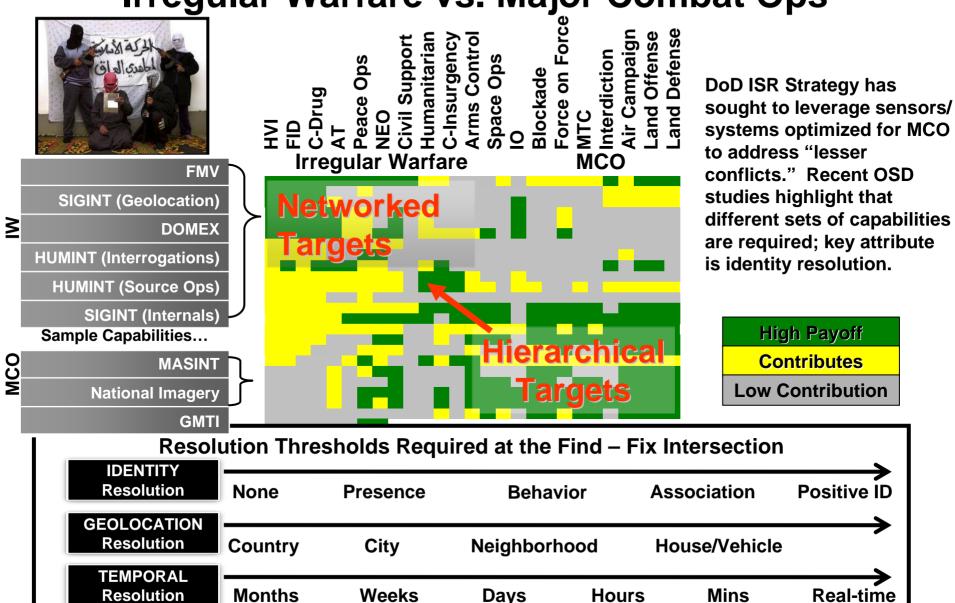
Problem Statement: Current Army MI Force structure is <u>not optimized</u> to provide <u>core capabilities</u> in support of BCT and Division/Corps <u>full-spectrum</u> operations on a <u>sustained</u> Army Force Generation (ARFORGEN) cycle.

Ways & Means: Generate modular multi-functional (Mf) MI Bdes and reinforce BCT MI companies with core intelligence capabilities and capacity to meet BCT and Div/Corps ARFORGEN requirements by re-missioning/restructuring ASCC Theater MI Bdes; redefining the Cryptologic Enterprise Military-Civilian manpower balance; and reinvesting current BfSB resources.

Guiding Principles:

- 1. Rigorously Defined & Empirically Derived Core Intelligence Capabilities
- 2. Optimized Capacity at Key Echelons -- Where Risk to Force is Greatest
- 3. Full Spectrum
- 4. ARFORGEN Sustainable

Intelligence Core Capabilities
Irregular Warfare vs. Major Combat Ops



Core Intelligence Capabilities

2008 TRADOC Recommended Intelligence Capabilities for Future Force Integration

- √ Cryptologic Support Teams (CST)
- **✓ SIGINT Toolkit**
- ✓ Document & Media Exploitation (DOMEX)
- √ Weapons Intelligence Teams (WIT)
- ✓ Multi-functional Teams (MFT)
- + Cyber Network Ops (CNO)

Source: TRADOC Recommended Force Structure Requirements for TAA 10-15 Sourcing In Response to DA G-3 Tasking, Oct 07

2009 USD(I) Cross-Cutting Studies Analysis and ISR TF Sizing Construct

- √ Full Motion Video (FMV)
- **High Priority**

- ✓ Interrogation
- ✓ Media Exploitation (MEDEX)
- ✓ Airborne Precision Geolocation (APG)
- ✓ National/Tactical SIGINT

Source: Summary of OSD JCS Analysis of ISR Contributions to COIN and CT, Slide 9, Mar 09

2009 OSD Cross-Cutting Study: 6 Overarching Axioms for IW ISR Force Sizing

F3EAD -- Six Driving ISR Capabilities:

- 1. Full Motion Video (FMV)
- 2. SIGINT (Geolocation)
- 3. **HUMINT** (Interrogations)
- 4. Document & Media Exploitation
- 5. **HUMINT** (Source Ops)
- 6. SIGINT (Internals)

Three Enabling ISR Capabilities

- 1. ISR Architecture/Dissemination
- 2. Analysis/Exploitation
- 3. Communications

Source: Update to VCJCS: Cross-Cutting Analysis & ISR TF Force Sizing Assessment, Slide 10, May 09

Army ISR Core Capabilities... The Program of Record Integration Challenge

Full Motion Video (FMV) Imagery













Constant Hawk Wide Area

MARSS/ ARMS

Hunter

Air Warrior / Sky Warrior

BCT UAV (Shadow)

RAID Tower

PTDS

OS-RVT

Signals Intelligence (SIGINT)



Cryptologic Support Teams (CST)



Prophet / PRD-13



Hunter Greendart



Guardrail



Red Ridae



SIGINT

Document & Media **Exploitation (DOMEX)**



Media Exploitation Suite



Forensic Exploit



Database Connectivity

Human Intelligence (HUMINT) & Biometrics



HUMINT Tool Kit



Mobile SATCOM



HIIDE



Biometrics Automated Toolset (BATS)

Analysis & Communications



Trojan &

Networks









Army MI Force Imbalance

MI Force By Command/Echelon

	Total 54,048	%
Joint/Defense	4,964	9
SOF	2,695	5
Theater	50°∕ ∫10,543	20
INSCOM	50% 16,483	30
ECB	19,363	36

36% of Army MI
Force is
ARFORGEN
Accessible; ECB
Under-investment,
Where Risk to
Force is Greatest...

Intel Unit Versus Ad-Hoc Requirements

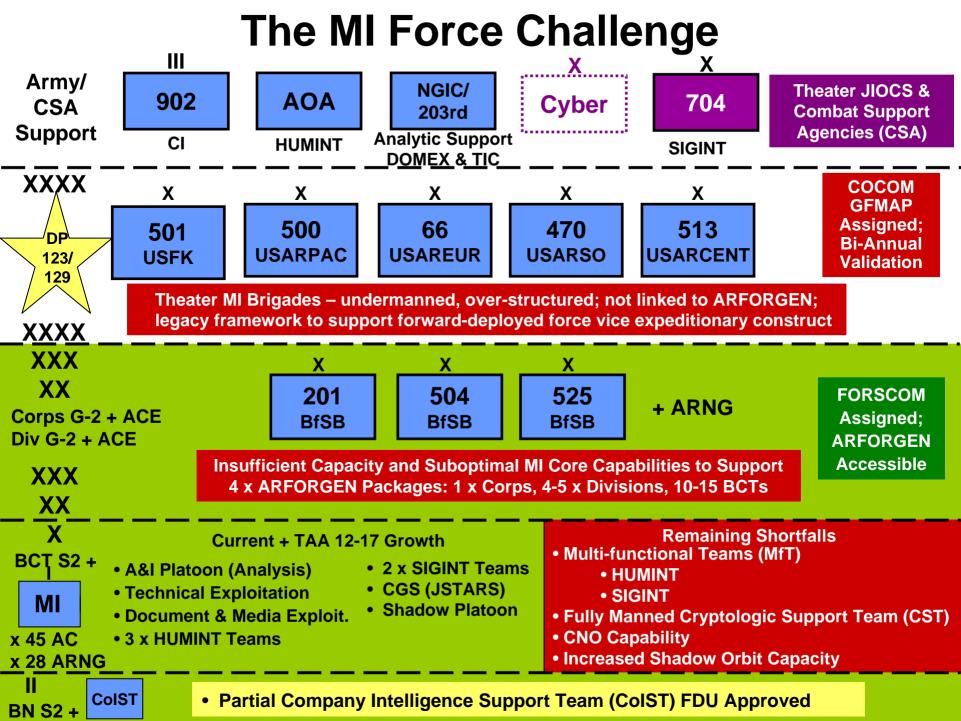
	% Ad-Hoc
OIF	42%
OEF	36%

Current Army MI Force Does Not Reflect Required Core Intelligence Capabilities...

ARFORGEN Rotation Goals

	Army FY11 Goal	Objective Steady State	Objective Surge
AC Rotation Goal	1:2 (12:24 mo)	1:3 (9:27 mo)	1:2 (12:24 mo)
RC Rotation Goal	1:4 (12:48 mo)	1:5 (12:60 mo)	1:4 (12:48 mo)

ARFORGEN
Rotational
Framework
Fundamentally
Redefines Force
Structure
Mandates



Army MI Rebalance Approach

1. Strategic Approach

- Focus on Intel "Center of Gravity" ~
 BCT (IW) and Division/Corps (MCO)
- Embed Core Intelligence Capabilities where Risk-to-Force Greatest
- Mitigate Risks at Other Echelons
- Provide Army Leadership Alternative Strategic Investment Options

2. MI Force Characteristics

- Full Spectrum
- ARFORGEN (Assured Access & Rotational)
- Joint and CSA Enabled
- Key Intelligence Functions
 - ~ Sustained at All Levels
- Multi-functional
- Modular & Scalable
- Sustainable
- Balanced Compo 1 3 Mix

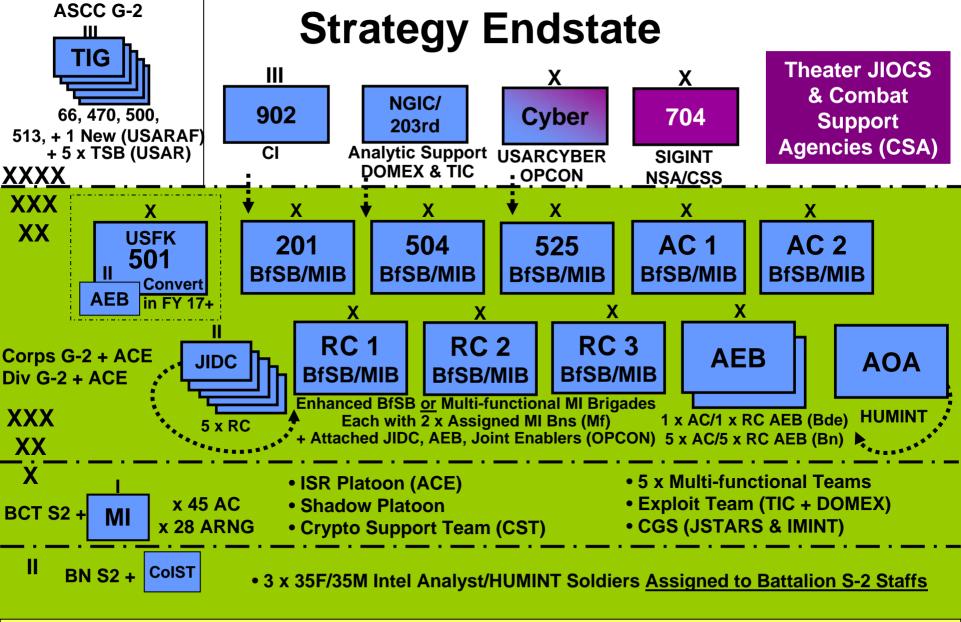
4. Investment Options

- Company Intel Teams -- CoIST
- BCT MI Enablers
- Multi-functional MI Brigades
- Theater MI Brigade Reallocation
- Aerial ISR Layer & CNO
- Rotational Models ~ AEB (Bde)
 Theater Intel Groups (TIG)

3. Force Sizing Assumptions

Must Support Army Force Package:

- 1 x Corps, 4-5 x Divisions, & 10~15 x BCTs (Max 20) -- Indefinitely
- 1 x MI Company per BCT
- 1 x MI Brigade and Aerial Layer to Support Committed Operational Headquarters or Multi-Division Ops
- Retain Analytical Support to ASCC
- Retain Capability to Support Forward Based Forces & COCOMs
- Emerging Cyber/CNO Requirements
- "Surge" Status Requires Deliberate Leveraging of Joint Augmentation



Ways & Means: Generate modular multi-functional (Mf) MI Bdes and reinforce BCT MI companies with core intelligence capabilities and capacity to meet BCT and Div/Corps ARFORGEN requirements by re-missioning/restructuring ASCC Theater MI Bdes; redefining the Cryptologic Enterprise Military-Civilian manpower balance; and reinvesting current BfSB resources.

Company Intel Support Team (CoIST)

CDR	★★★★	★★★	★★	Bde/COL	Bn/LTC	Co/CPT X None	New
Intel Staff	J2	G2	G2	S2	S2		Core Capability

Intelligence Gaps CoIST Addresses:

- ✓ Intelligence Preparation of the Battlefield (IPB)
- ✓ Patterns of Life, Trend, and Link Analysis
- ✓ Reconnaissance & Surveillance (R&S) Planning & Integration
- ✓ Patrol Debriefs
- ✓ Collection Requirements
- ✓ Site Exploitation
- ✓ Tactical Questioning Instruction for Non-Intel Soldiers
- ✓ Interrogation, Source Ops (USD(I) Policy)
- ✓ Spotting, Assessing, HUMINT Collection (USD(I) Policy) >35M
- ✓ Document & Media Exploitation (DOMEX)
- ✓ Target Packages
- ✓ SIPRNET Access
- ✓ Intelligence Dissemination
- ✓ Integration of Intelligence Augmentation Mf Teams, Ground SIGINT Teams
- ✓ One System-Remote Video Terminal (OS-RVT) Full Motion Video (FMV) Access & Analysis
- √ Biometrics Collection (HIIDE)
- ✓ Cell Phone Exploitation (CELLEX)
- ✓ Unattended Ground Sensors Planning & Management (UGS)

Organize for Intelligence: Company Intelligence Cells in COIN

in the fall of 2006, while preparing to deploy in support of Operation Lraqi Freedom (OIF) 60-68 as a company fire support officer (FSO) with Company, 2 off Battalion, 5th Cavalry [E-2-5 cav), 1st Brigade Combat Feam BCT), 1st Cavalry Division, I was told or ead on article. It was "Twenty Eight Articles: Fundamentals of Company-level Counterinsurgency" by Dr. David Kicullen. Then, I designed a proposal for a company intelligence cell for the anit's upcoming deployment.

In organizing and implementing the cell in combat, I became convinced of the necess By First Lieutenant Rory M. McGovern, FA

pany intelligence cell. The solution to this dilemma lies in the company fire support team (FIST). It is the company FIST's versatility that

It is the company FIST's versatility that makes it ideal to form the foundation of a company intelligence cell. In the COIN operations currently underway in Iraq and in addition to their traditional fire support tasks, FSOs and fire support NCOs (FSNCOs) are expected to assume FIST-centered company intelligencell.

Organization. The company inteligence cell should be a combination of perations and effects, drawing upon the IST and elements of the beadquatters lateous to build the cell. For E2-3 Cav's talligence cell, the FSO was the officer a charge (OIC), and the FSNCO was he NCOIC. Four headquatters plateon olders became adult-telephone operaors, and the FIST provided the remaining oldiers (see Fixure 1)

In the original concept, the headquar



"Units must resource S2 sections down to the company level," Major General Jeffery Hammond, commander of the 4th Infancy Devision, makes clear his viasion and intent for operations during the following the section of the property Fight." In this document, he states several times that his "subsectinates will have a 70 to 90 percent read of the enemy prior to conducting any partsel." Currently across the Army, these com-

or to conducting any parrol."

Currently across the Army, these corpany \$2 sections exist by a multitude of names; some are referred to as the "corpany intel cell," "company exploitation," "company \$2 section," as "company intel support feam. For the purpose of the support feam. For the purpose

combat recovery team or the compansatiet gumen. These teams are require provide many functions for the conamider, thus the key to their success is of just resourcing them, but resourcin the properties of the success and teaders he Company Intel Support Toom Mission to today's full spectrum combat environment, the company commander can be preferred intelligence analysis and for

entions, but the company's master gues ner is the unit's expert in this field gut as the company intel team noncommissioned officer should be the communder's expert on matters of intelligence.

The Marine Corps jumped out shead of its sister service by publishing a manu-

The Marine Corps jumped out shead of its sister service by publishing a manual that outlined dectrine for company intel support teams in December 2004 Moreover, the manual points out that the intel support team is not a new concept regardless of how foreign it may non-

Assign to H/I/S Bn & Recce Sqdn S-2 MTOE for Training and Certification; 3 x MI Soldiers per Maneuver Co 2 x 35F Intel Analysts + 1 x 35M HUMINT Soldier

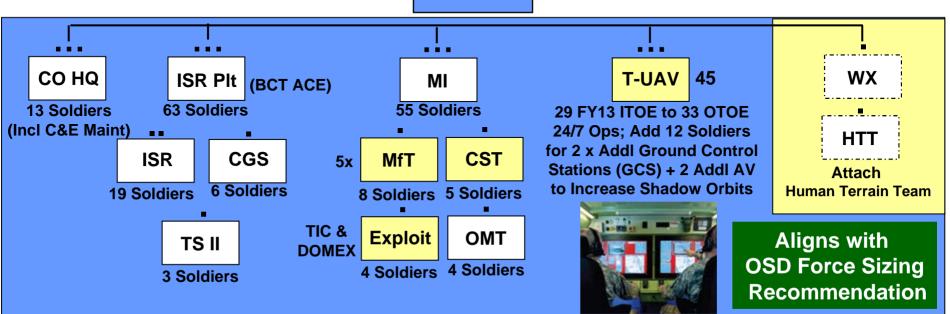
BCT MI Company

Current Base = 99 TAA 12-17 + 18 = 117

22% Increase

MI 143

 Upgrades current construct with core intel enhancements identified by TRADOC & OSD



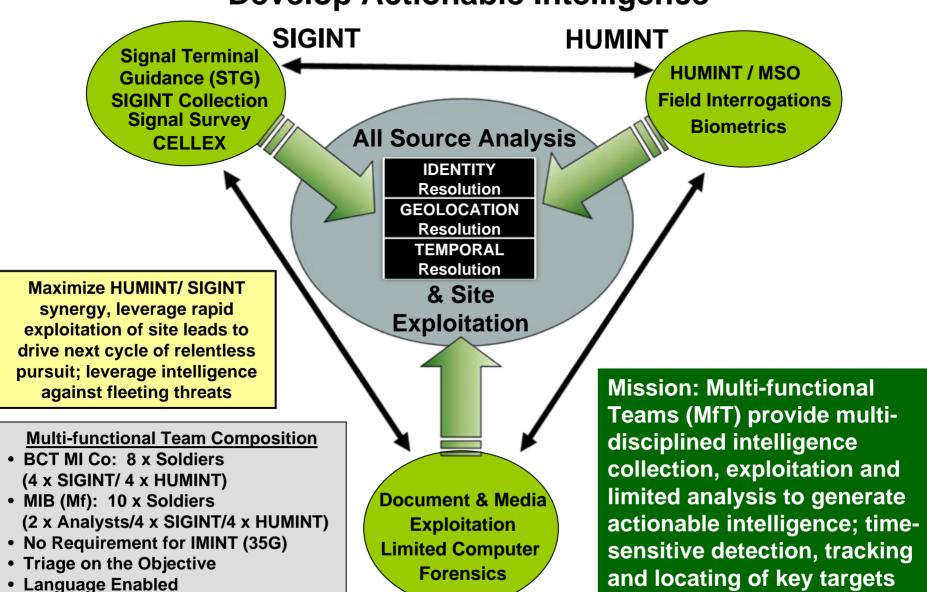
Capabilities:

- > 5 x Multi-functional Teams (MfT); SIGINT, HUMINT (Source Ops, Interrogation) & Site Exploitation
- NSANet-enabled Cryptologic Support Team (<u>CST</u>)
- Exploitation Team: <u>DOMEX</u>, <u>TIC</u>, Biometrics, Limited Forensics
- 2 x Shadow TUAV Orbits (24/7); OS-RVT Full Motion Video (FMV) Feeds from all Army, Joint UAS
- > JSTARS/GMTI Common Ground Station
- > DCGS-A SIPR & SCI; TROJAN SPIRIT (TS II) SATCOM
- > Receive MIB (MfT) Teams, CI, Cyber, Joint, IC enablers

Mission: The BCT MI Company provides focused, downward-reinforcing multidisciplined intelligence support to BCT, Bn and Co tactical operations: IPB/I&W/Sit Development & Targeting Analysis; ISR Synchronization; Target & Wide-Area Surveillance (FMV & Radar GMTI); SIGINT; Imagery Exploitation; Tactical HUMINT Source Ops & Interrogations; Site Exploitation, Document & Media Exploitation/Weapons Intelligence, Limited Forensics, Biometrics.

Multi-functional Team Construct (MfT)

Develop Actionable Intelligence



On Site Collection & Exploitation

BCT ISR Force-Sizing Comparison

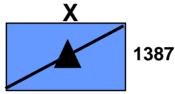
F3EAD/	Core	OSD BCT ISR Force Sizing Recommendation (Cross Cutting Studies)					lance
Targeting Cycle	Intelligence Capability			BCT Organic	EAB		
Fix/Finish	FMV/APG	6 FMV (2 w/APG) Orbits		3.2 Orbits	3 + Orbits*		
	STG	3 Teams		5 Teams			
	DOMEX	1 Team		1 Team	E-BfSB/		
Exploit/	Exploitation	2 Teams		5 Teams + CoIST	MIB (Mf)		
Analyze	Interrogation	1 Team		Teams + CoIST + OMT	Augmentation Available as		
Discovery/	COMINT	6 Teams		5 Teams + CST	Required		
Find	HUMINT	9 Teams	5	Teams + OMT + CoIST			

*CAB/AEB/TF ODIN

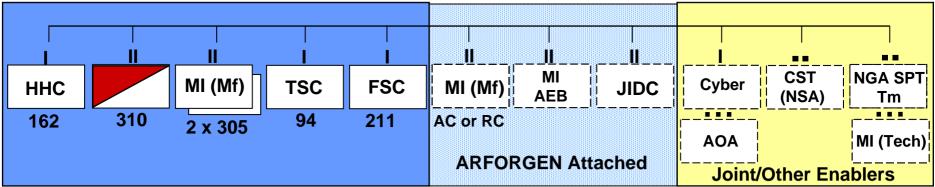
A Strategy to Rebalance the Army MI Force Meets or Exceeds OSD BCT ISR Force Sizing Recommendations

Enhanced BfSB (Option 1)

Current Base = 1333 (△54)
Impact: 6 AC BfSBs Require
Addl 930 Recce Sqdn Soldiers



- Enhances Current BfSB with Core MI Enablers
- 1 x per ARFORGEN force package; Objective 2 x per
- Modular teams to full brigade tailored to meet requirements defined through GFM Process



Capabilities

- > Mounted Ground Reconnaissance (Recce SQDN)
- > Manned Long Range Surveillance
- > 8 x 10 Soldier Multi-function Teams per MI Bn (Mf)
- > Interrogation Company; JIDC Battalion as required
- > Robust CI & Security Det
- Tech Support Co UAS & Ground ISR
- OPS/INT Fusion Teams (1 per Division)
- Aerial ISR (FMV/GMTI/SIGINT)(AEB OPCON)
- > HUMINT Detachment, Cyber Company (OPCON)
- > Robust Comms, NSANet-Enabled CSG (NSA)
- GEOINT Exploitation Team (NGA)
- Coordination/Execution of DOMEX/TECHINT
- > C2 of Joint & Operational Intel enablers
- SOF Liaison (CJSOTF, Other)
- Agility to Weight Div & Corps Efforts

Mission: The Enhanced BfSB conducts multidisciplined intelligence, surveillance & reconnaissance operations in support of Div/Corps operational requirements. The enhanced BfSB provides persistent surveillance and intelligence overwatch of non-contiguous BCT battlespace, and develops unique intelligence problem sets such as irregular warfare (IW) networks and, as needed, provides downward reinforcing capabilities to the BCT. Command & Control (C2): The enhanced BfSB provides C2 for all operational ISR units above **BCT level in Div/Corps battlespace, integrates** Army & Combat Support Agency (CSA) enablers (AOA HUMINT, 203rd MI TECHINT, NSA Cryptologic Support Teams (CST), NGA GEOINT Cell, and provides up to 3 Fusion Cells. 15

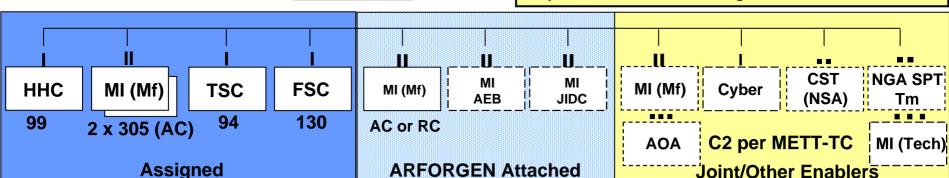
MI Brigade (Mf) (Option 2)

Current Base = 1333 (BfSB)



New construct leveraging current BfSB structure
1 x per ARFORGEN force package; Objective 2 x per
Modular teams to full brigade tailored to meet

requirements defined through GFM Process



Capabilities

- > 8 x 10 Soldier Multi-function Teams per MI Bn (Mf)
- > Interrogation Company; JIDC Battalion as required
- Counterintelligence & Security Detachment (becomes JCIU w/joint augmentation)
- > Tech Support Co (ISR Comms, Tech Spt Packages & UAS-Emplaced Remote Surv Robotics)
- > OPS/INT Fusion Teams (1 per Division)
- > Aerial ISR (FMV/GMTI/SIGINT)(AEB OPCON)
- > HUMINT Detachment, Cyber Company (OPCON)
- Robust Comms, and NSANet-Enabled Cryptologic Support Group (CSG) (NSA)
- > GEOINT Exploitation Team (NGA)
- Coordination/Execution of DOMEX/TECHINT
- Agility & Flexibility to Weight Div & Corps Efforts (Border Area, IED Supply Chain)
- > C2 of Joint & Operational Intel enablers
- > SOF Liaison (CJSOTF, Other)

Mission: The MI Brigade (Mf) conducts multidisciplined intelligence operations in support of Div/Corps operational requirements. The MIB (Mf) provides persistent surveillance and intelligence overwatch of non-contiguous BCT battlespace, and develops unique intelligence problem sets such as irregular warfare (IW) networks and, as needed, provides downward reinforcing capabilities to the BCT.

Command & Control (C2): The MIB (Mf) commands/controls all operational MI units above BCT level in Div/Corps battlespace, and integrates Army & Combat Support Agency (CSA) enablers: AOA HUMINT, 203rd MI TECHINT Platoon, NSA Cryptologic Support

Team (CST), NGA GEOINT Cell, etc.; and up to 3 Fusion Cells.

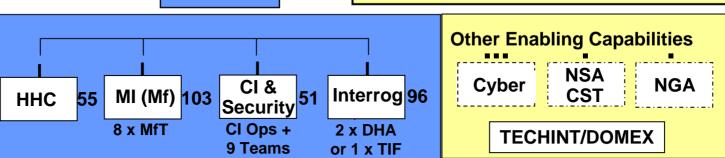
16

MI Battalion (Mf), MIB (Mf)

Current BfSB MI Bn = 290 ITOE/ 468 OTOE



- Construct leverages current BfSB MI Bn structure
- Remedies shortfalls of Division-level Interrogation, CI
- Multi-function teams exploit HUMINT/CI/SIGINT leads



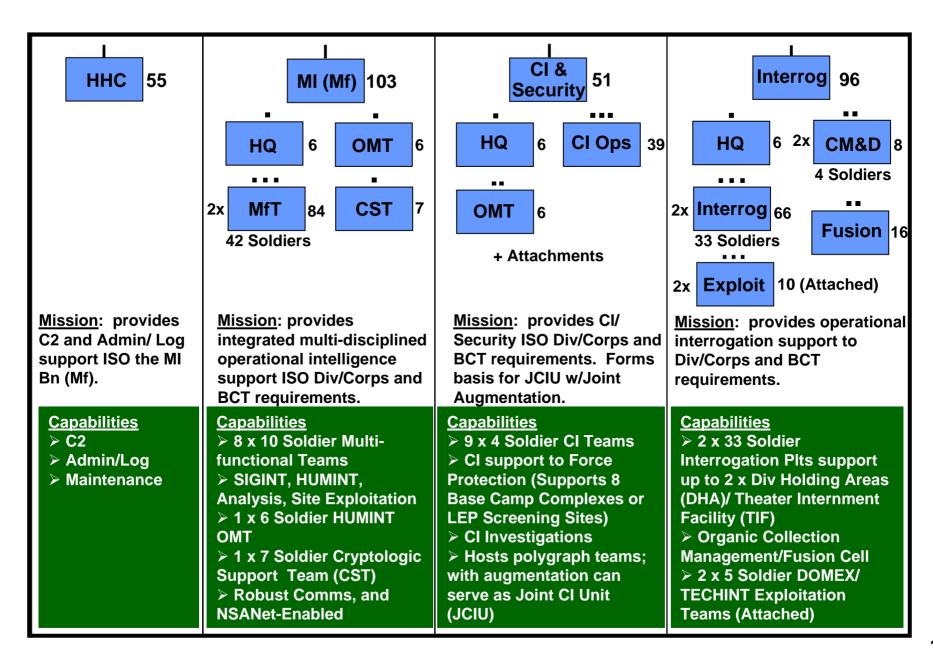
Capabilities

- > 8 x 10 Soldier Multi-function Teams
 - -- HUMINT & SIGINT; Reinforcing CI/Cyber
 - -- 2 x Analysts Embedded Analytic Capability
 - -- Agility to Weight Div & Corps
 Efforts (Border Area, IED Supply Networks)
- > Interrogation Company
 - -- JIDC Battalion Capabilities, Supports 1- 2 x
 Division Holding Areas (DHA) or 1 x Theater
 Internment facility (TIF)
- > CI & Security Company
 - -- Tactical CI; LEP Screening
 - -- Polygraph Coordination
 - -- Integrate 902nd Joint Counter Intel Unit (JCIU)
- Robust Comms, NSANet-Enabled Cryptologic Support Team (CSG) (NSA)

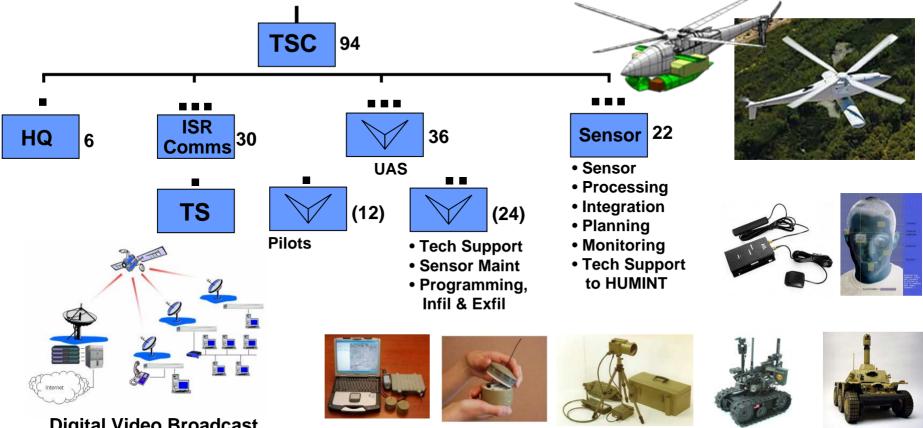
Mission: The MIB's MI Bn (Mf) conducts multidisciplined intelligence operations in support of Division/Corps operational requirements. The Battalion (Mf) provides critical Interrogation/Debriefing/HUMINT and Counterintelligence support to develop cross-BCT boundary problem-sets such as IED supply and Foreign Fighter networks, and employ Multi-functional teams to sustain relentless pursuit of Division & Corps-level targets. As needed, provides downward reinforcing capabilities to the BCT.

Multi-functional Team (MfT) = 2 x All Source + 4 x SIGINT + 4 x HUMINT

MI Companies, MI Bn (Mf)



Tech Support Co (TSC), MIB (Mf)



Digital Video Broadcast

Return Channel Signal (DVB-RCS) Unattended Ground Sensors (UGS)

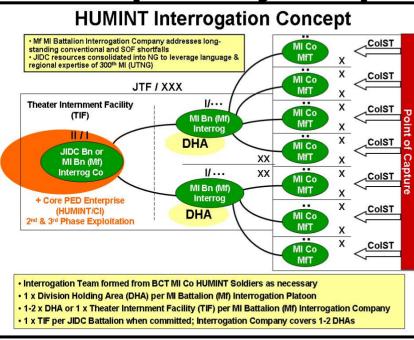
Advanced Robotic Sensors

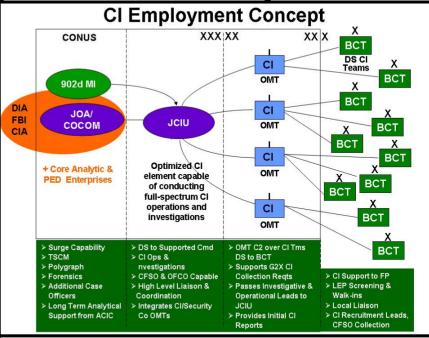
Capabilities

- > 3 x UAS Rotary ISR (Vertical Lift)
- > SIGINT/IMINT; TECH HUMINT
- > 24/7 PED capability
- > Remotely monitored multi-sensor packages
- > SIGINT, IMINT/FMV, DVB-RCS sensors
- > Unmanned Multi-INT LRS

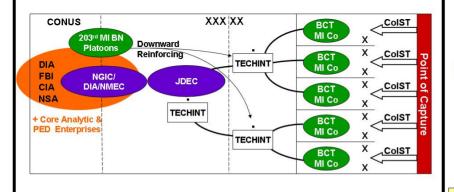
Mission: Comms support to the MIB (Mf); UAS Rotary ISR; program, aerial emplacement, monitoring, processing, exploitation, dissemination, and recovery; unmanned remotely monitored multi-sensor SIGINT, IMINT/FMV, DVB-RCS Packages; Unmanned Multi-INT LRS; remote ISR sensor exploitation in support of BCT and Div/Corps R&S Ops.

Capability Employment Concepts



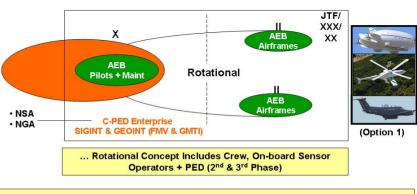


DOMEX/TECHINT Employment Concept



FEDEX Model – track documents and media from point of capture to the JDEC, along with biometric detainee data and interrogation reports

Army Aviation ISR Rotational Employment Concept



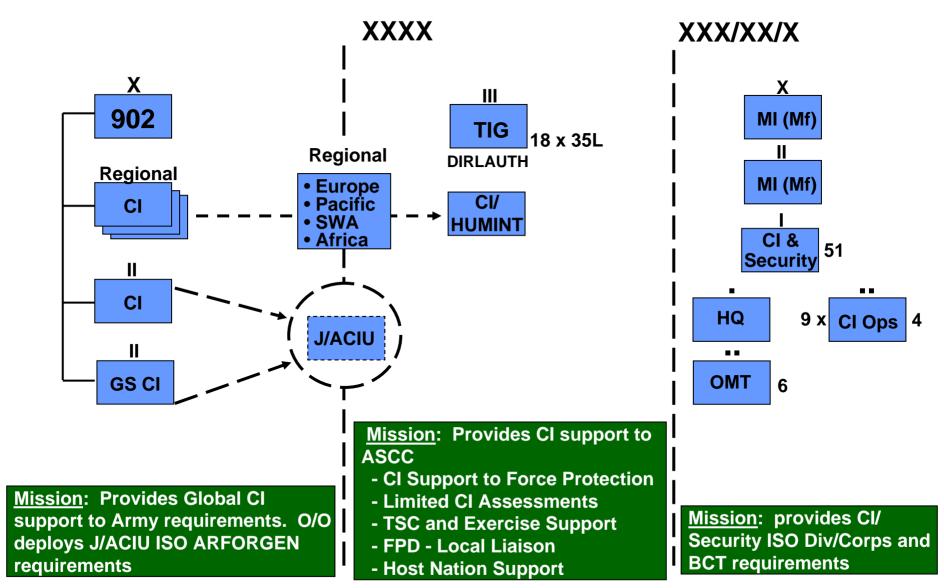
Typical AEB Force Package x 2 (Aerial Layer Option 1)

8 x LEMV (Hybrid Airship; EOIRI-HD FMV MTSC, Laser, APG GP, SAR/GMTI, Vader, WAMI, GRP, AWAPSS, Comms)

19 x YMQ-18A (UAS Helicopter; EOIRI-HD FMV MTSC, Laser, APR/JPR, SAR/GMTI, Vader, GPR)

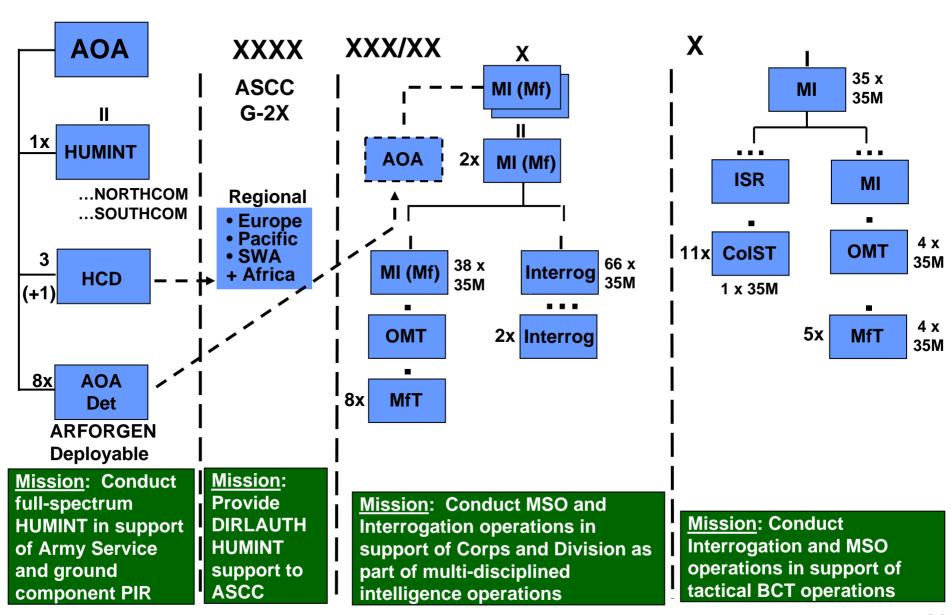
18 x E-MARSS (B-350 w/EO/IR/HD FMV MTSC, Laser, APG PR/GP, SAR/GMTI, Vader)

(Proposed) Army CI Laydown

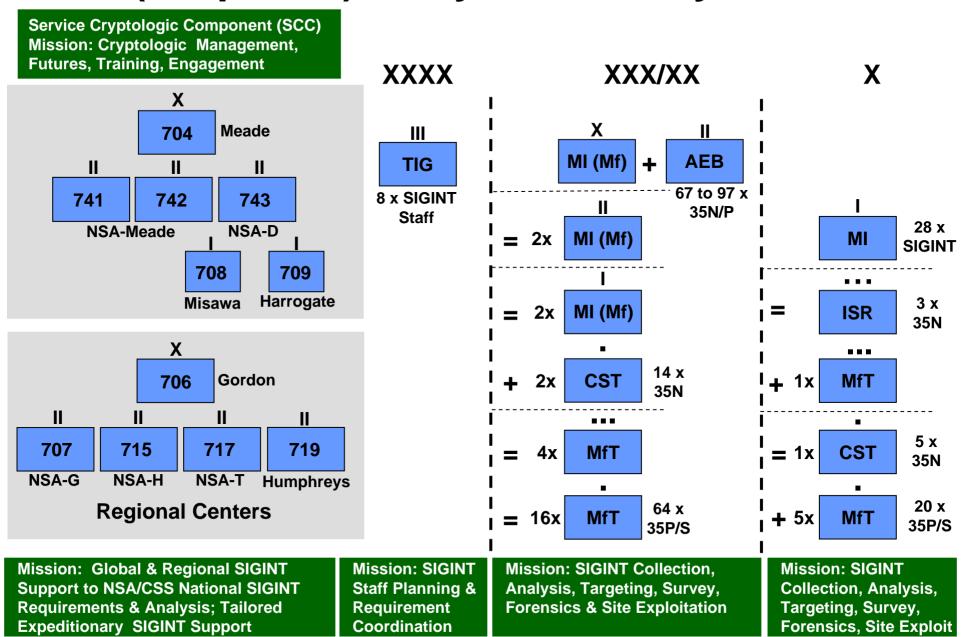


(JCIU = SCID)

(Proposed) Army HUMINT Laydown



(Proposed) Army SIGINT Laydown



Aerial ISR Mission Requirements



Missions

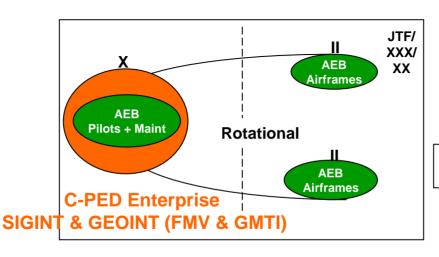
- Full Spectrum
- Offense-Defense-Stab Ops
- Force Protection
 - Counter-IED
 - Counter-IDF
 - Route Recon/Overwatch
 - FOB Defense
- Stability Operations Support
- Support to Host Nation Ops
- Counter Drug

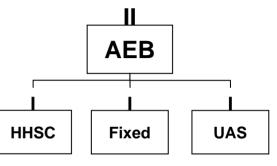
Capabilities

- Targeting High Value & Time Sensitive
- SIGINT Collect/ID/Track/Geo-locate
- Special Signals Tracking
- Positive Identification (PID)
- Patterns of Life
- Persistent Surveillance
- Border Crossing/Site Monitoring
- Weapons Cache Detection/Location
- Vehicle Tracking/Pattern Analysis
- Forensic Backtracking
- Change Detection/Cueing
- Support to Troops in Contact

Attributes

- Integrated
- Responsive
- Dedicated
- Assured
- Accurate
- Persistent





Goal: 90 Orbits Future Aerial ISR Capabilities

		1		A Comment		The state of the s
	SHADOW	ERMP	E-MARSS ACS Block I	YMQ-18A ACS Block II	LEMV ACS Block III	ACS ACS Block IV
WAAS					AWAPSS	AWAPSS
GPR FOPEN				GPR	GPR	
SAR/GMTI			SAR/GMTI VADER	SAR/GMTI VADER	SAR/GMTI VADER/WAMI	SAR/GMTI VADER
SIGINT		APG TSP	APG PR	APG PR	APG PR	APG TBD
Laser	Laser	Laser	Laser	Laser	Laser	Laser
FMV EO/IR/HD	EO/IR POP 300	EO/IR CSP	EO/IR/HD MX-15/CSP/MTSC	EO/IR/HD MTSC	4 x EO/IR/HD MTSC	2 x EO/IR/HD MTSC
Comms	LOS C Band	LOS/TCDL BLOS/Ku	LOS/TCDL BLOS/Ku	BLOS/Ku	BLOS X/Ku/C/S	BLOS Ku
Availability	Fielded	Ongoing	E-MARSS In Development	SOF	1/8 Scale Test	2016 & Beyond
Flight Duration	4.5 Hrs	21 Hrs	5 Hrs	12+ Hrs	24 Hrs/21 Days	7.5 Hrs
Payload	100 LBS	435 LB	2200 LBS	1000 LBS	2500 LBS	15000 LBS
Optimal Altitude	10K	10K	17K	20K	20K+	20K
Crew	UAS	UAS	2 + 2	UAS	UAS	2 + 4 (8)

MX-15 WESCAM Ball - Small UAS FMV EO/IR **MTSC Multi-Spectral Targeting System APG PR** Airborne Precision Geolocation Pennant Race

Vader Vehicle & Dismount Exploit Radar -**Ground Moving Target Indicator (GMTI) Radar FOPEN - Foliage Penetrating Synthetic Aperture Radar (SAR)** WAMI - Wide Area Movement Indicator

AWAPSS - Airborne Wide Area Persistent Surveillance System SAR - Synthetic Aperture Radar

Aerial Layer Orbit Analysis

OSD Force Sizing Recommendation = 6 Orbits per Committed BCT

15 x Committed BCT = 90 Orbits

1 x Orbit = 21-24 Hours of Coverage

BCT Orbit Generation

			201 011111 001
		Orbits	
Raven		.25	
Current	7/		
Shadow RQ-7B		1.15	
E-Shadow *	*	2.0	GCS
ERMP/Sky Warrior	*	1	

= 3.25

- * Enhanced Shadow =
- 1. 2 x Addl Ground Control Stations (GCS)
- 2. 12 x Addl Crew (Pilots & Maint)
- 3. Additional RQ-7B Air Vehicles (AV)
- 4. No Additional Launch & Recovery Equipment













Options to Generate 3 Additional Orbits to Resolve 2.8 + Shortfall

6 - 3.25 = 2.75 Orbit

Shortfall

Sensor Platform	ns	Hrs	On Station	Orbits	Concept of Ops	
E-MARSS	(Block 1)	5	4	1	BCT = 3 Bn TF (2 Bn, Recce Sqdn)	
YMQ-18A	(Block 2)	12	2	1	Bn Executing Mission 3	
LEMV	(Block 3)	24	1	1	Bn Planning Mission 2	
-8 Turbo-Prop	(Block 4)	7/8	2	1	QRF/Reserve	1
ERMP		21	1	1	Total Requirement 6	

Source: OSD Cross Cutting Studies, (U) ISR Sizing for Irregular Warfare (IW), Slide 8, July 2009

Total

^{*} Shadow Baseline = 1.15; E-Shadow = 2.0

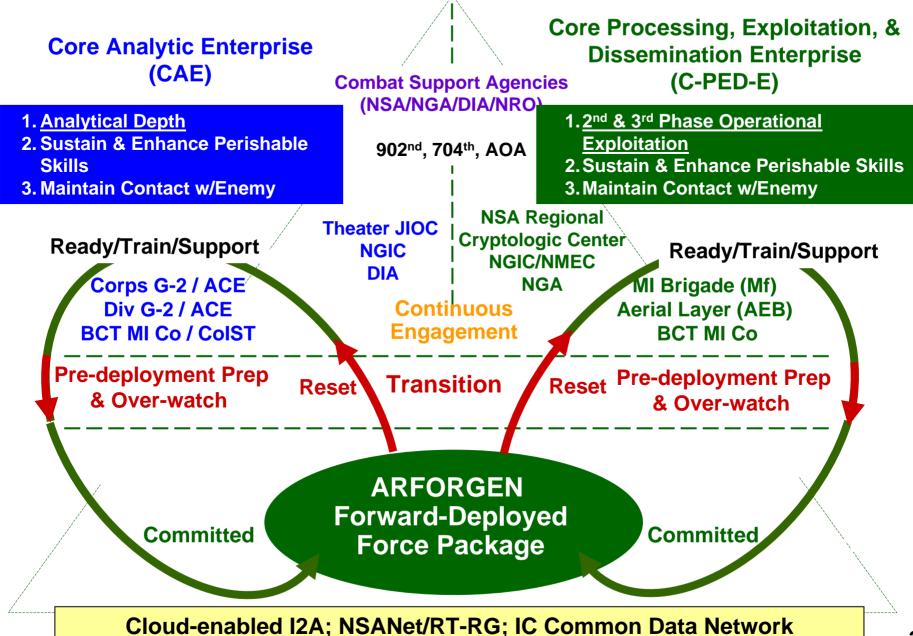
Aerial ISR Layer Options

Option	ISR Platforms/Mix	Aerial ISR Layer Option Comparison
1	16 x LEMV 38 x YMQ-18A 36 x E-MARSS (C-12) Shadow – 3 x Orbits	 Removes AC Force Package from reliance on runways Reliance on 2 x Future ISR Systems (LEMV & YMQ-18A) Robust Communications (LEMV) Unmanned Long Range Surveillance (YMQ-18A) ARNG Pilots/Crew for C-12's provide manned teaming
2	16 x LEMV 158 x YMQ-18A 36 x E-MARSS (C-12)	 Shadows replaced by 8 x YMQ-18A - 3 x Orbits/BCT Reliant on 2 x Future ISR Systems (LEMV & YMQ-18A) Unmanned Long Range Surveillance (YMQ-18A) ARNG Pilots/Crew for C-12 provide manned teaming Robust Communications (LEMV)
3	8 x LEMV 14 x ACS (T-Prop) 36 x E-MARSS (C-12) Shadow – 3 x Orbits	 Maximum Mix of ISR Systems Capabilities Reliant on 2 x Future ISR Systems (ACS, LEMV) Greater Leveraging of ARNG for Pilots/Crews Robust Communications (LEMV)
4	16 x LEMV 36 x E-MARSS (C-12) Shadow – 3 x Orbits	 Reduced Mix of ISR Systems Capabilities Reliant on 1 x Future ISR System (LEMV) Greater Leveraging of ARNG for Pilots/Crews Robust Communications (LEMV)
5	32-34 x ERMP (2 x E- Cos) 36 x E-MARSS (C-12) Shadow – 3 x Orbits	 Reduced Mix of ISR Systems Capabilities Proven ISR Systems & Technology Integration ARNG Pilots/Crews for C-12 AC (Remissioning C-23/27)



- ✓ OSD/USD(I) BCT ISR Force Sizing Recommendation: 90 Orbits to support 15 x BCT ARFORGEN Set
- ✓ Rotational Crews with Max Platforms Forward
- ✓ 1 x AC & 1 x RC Bde HQ; 5 x AC Bns, 5 x RC Bns

Fully Leveraging the MI Force



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OCT 8 2000

(U) EXECUTION ORDER (EXORD) for the Reorganization of Army Service Component Command (ASCC)/Theater Army HQ, Corps HQ, & Division HQ

(U) References.

- a. (FOUO/LIMDIS) FRAGO 1 to the 2009 Army Campaign Plan (ACP) EXORD, 26 Jun 09.
- b. (U) HQDA, AR 10-87, Organization and Functions, Army Commands, Army Service Component Commands, and Direct Reporting Units, 3 Sep 07.
 - c. (FOUO) PLANORD for the Prioritization of ASCC and Corps HQ, 25 Jan 08.
- d. (FOUO) FRAGO 1 to ASCC PLANORD for the Prioritization of ASCC and Corps HQ, 2 May 08.
- e. (FOUO) FRAGO 2 to ASCC PLANORD for the Prioritization of ASCC and Corps HQ, 26 Aug 08.
- f. (S) FRAGO 3 to ASCC PLANORD for the Prioritization of ASCC and Corps HQ, 29 Dec 08.
- g. (S) FRAGO 4 to ASCC PLANORD for the Prioritization of ASCC and Corps HQ, 19 Feb 09.
- h. (U) HQDA Active Component (AC) Manning Guidance for Fiscal Years (FY)
- 1. (U) Situation. The Chief of Staff of the Army (CSA) approved the geographic Army Service Component Command (ASCC)/Theater Army HQ, Corps HQ and Division HQ organizational designs on 20 Jul 09. As part of Army Transformation (see Reference a above), these HQ are the Title 10 (ASCC/Theater Army) and Operational HQ (Corps/Division HQ) that command and control Army forces above the Brigade level. The designs were validated through field units, force design and combat development proponents, TRADOC leaders, other Army Commands, ASCCs, concerned Direct Reporting Units and HQDA staff yielding unit designs that are feasible, suitable and acceptable. This execution order directs all activities, events and developments associated with the implementation of these designs over time. References c. through g. above are rescinded with this order.

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2. (U) Mission. The ASCC/Theater Arm meet Geographic Cand full spectrum of

3. (U) Execution.

a. (U) Inten
Reference a. above
Geographic Combi

CSA's Intent:
Corps and Division HQ form the
nucleus of a JTF or JFLCC: the Corps
HQ in major operations and the
Division HQ in small scale
contingencies...

requirements for full spectrum operations in the context of strategic priorities and resource constraints. These tailfred HQ are flexible and adaptable to changing operational conditions in the conduct of operations aut represent the minimum essential capability to conduct operations. Additionally, the CSA's intent is to:

(1) (U) Establish an AC Corps Hadquarters in the program by FY12. At the time of publication of this order, the statishing decision for this organization is pending and public announcement of this decision is withheld until an appropriate order is given. The establishment of I/le 4th AC Corps HQ in the program will result in no increase to programmed headquarters end strength by FY17 (end of the Program Objective Memorandum FY12-17).

(2) (U Each deographical ASCC will have the functions and capabilities found in the ASCC/Theater Army HQ design version 5.4. IAW ASCC/Theater Army HQ design, each ASCG /Theater Army HQ will have a contingency command post (CCP) capability. The CP is intended to command and control small scale contingency operations for aurations to not exceed 30 days. Each geographic ASCC/Theater Army HQ will by billored to meet their respective Geographic Combatant Command's strategy requirements.

(3) (U) Corps and Division HQ are globally available forces that command and control Army forces consistent with the command relationships directed in the Global Force Management Implementation Guidance (GMFIG). When directed, these HQ can form the nucleus of a JTF or JFLCC: the Corps HQ in major operations and the Division HQ in small scale contingencies. The Corps HQ (design version 4.1) and Division HQ (design version 9.1) are organized along the same functional lines (C2, maneuver, fires, ISR, aviation, protection, sustainment) but differ in that the Corps HQ brings a three-star commander and associated staff to the conduct of operations.

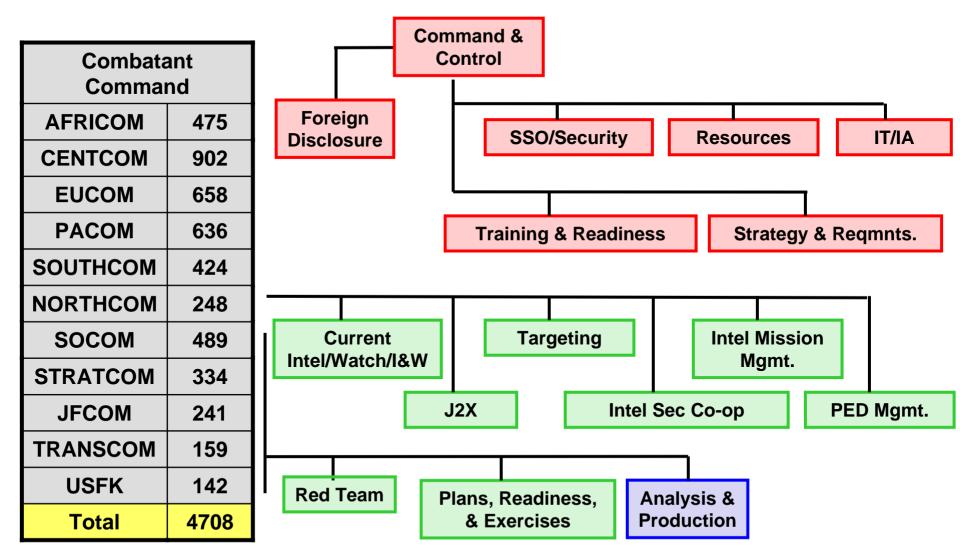
b. (U) Concept of Operations. As part of the on-going Army Transformation, the Army will reorganize all theater-committed geographic ASCC/Theater Army HQ and globally available Corps HQ and Division HQ to meet Geographic Combatant Commander (GCC) requirements for daily operations and full spectrum operations NLT FY13. Geographic ASCC/Theater Army HQ commanders, and CG, SETAF will assess the status of their respective headquarters to determine the required conditions and conversion timeline for achieving Initial Operational Capability (IOC) and Full

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DA EXORD 8 Oct 09

Existing Theater Capabilities to Support Joint Intelligence Operations



DoD has provided significant resources to the Theater Commander

ASCC Missions & Intelligence Reqts

Phase 0 Shape	Phase I Deter	Phase II Seize Initiative	Phase III Dominate	Phase IV Stabilize	Phase V Enable Civil Authorities	
ASCC Missions						
 Title X of Assigned Forces Small Scale Contingencies Shaping Ops TSC & Related Exercises Plans Development Force Protection Peacetime Engagement 	 RSOI Forces Title X of Assigned Forces Small Scale Contingencies Shaping Ops TSC & Related Exercises Plans Development Force Protection Peacetime Engagement 		 RSOI Forces Title X of Assigned Forces Small Scale Contingencies Shaping Ops TSC & Related Exercises Plans Development Force Protection Peacetime Engagement 	 Withdrawal & Retrograde Support Title X of Assigned Forces Small Scale Contingencies Shaping Ops TSC & Related Exercises Plans Development Force Protection Peacetime Engagement 		
	ASC	CC Intelligen	ce Requirements			
 IPB & Regional Analysis Indications & Warning Intel Support to Force Protection (CI, Other) Situation Development 	 Activate The Battalion (TS IPB & Region I&W Intel Support Protection (C Situation De 	nal Analysis rt to Force I, Other)	 Coordinate w/Corps G-2 & ACE IPB & Regional Analysis Indications & Warning Intel Support to Force Protection (CI, Other) Targeting/BDA 	 Indications Intel Support Protection (6) Targeting I 	ort to Force	

Leveraging the Intelligence Enterprise

Situation Development

JIOC/D-JIOC, Other Joint COCOM Enablers, CIA, Combat Support Agencies (NSA, DIA, NGA)

- Modular Theater Intel Groups (TIG) provide ACE-like analytical support
- AOA, 902nd, 704th provide regional collection capacity

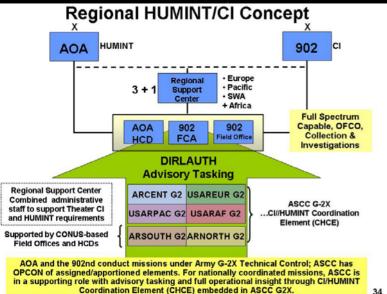
Limited Targeting/BDA

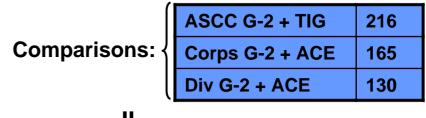
- OPCON Theater Support Bn (TSB) provides TSC, Exercise, SFA support
- NGIC provides regional analysis and 203rd MI (TECHINT) support

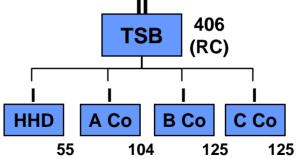
216 ASCC G-2 & Theater Intel Group (TIG)

(Current) ASCC G-2	MCP	ССР	
G-2/G-2 Ops	5	2	
ISR Ops Branch/Targeting	5	9	
SIGINT Branch	2	0	
GEOINT	2	0	
Collection Mgmt	10	0	
G2-X/HUMINT/TFCICA	3	3	
Ops & Intel Support	4	0	
Linguist Branch	2	0	
SSO (1) & SYSAD (2)	3	0	
Sub Totals	36	14	
Total	otal 50		

(Proposed) Theater Intel Group (TIG)	TOE	TDA
TIG & Co HQ (O6)	10	
All-Source Fusion (NGIC TDA)		50
Ops, Plans & Watch	36	
CI (No HUMINT) (Force Protection) (TDA)		18
SIGINT	8	
MASINT	4	
GEOINT (NGP TDA)		8
Sat Comms, CGS (IMINT), IEW Maint	26	
Sec Guards (AUG TDA)		6
Sub Totals	84	82
Total	10	66

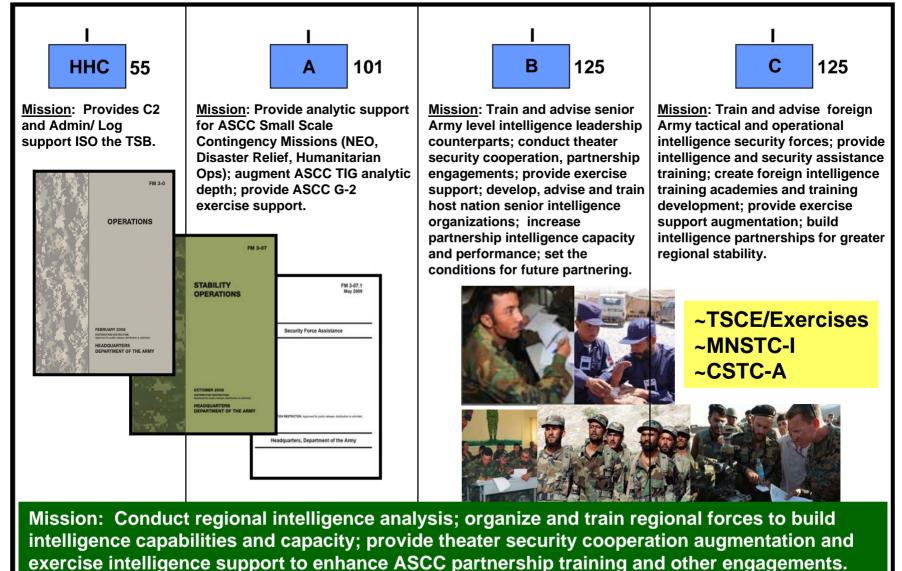




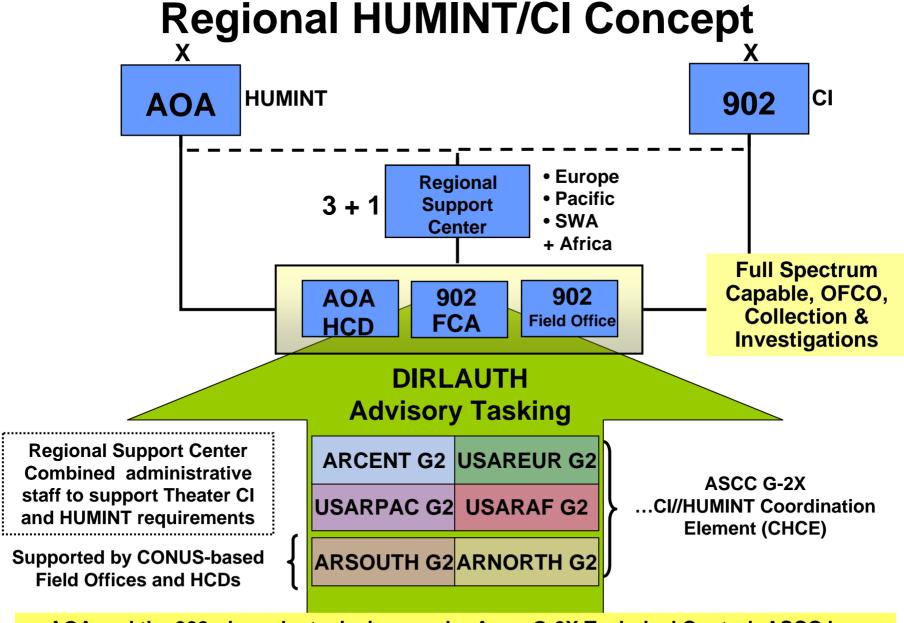


Remission... **TSCE, Security Force** Assistance, **Exercises, Small** Scale Contingencies, **ASCC Analytical Backfill**

Theater Support Bn (TSB) Proposed Remissioning

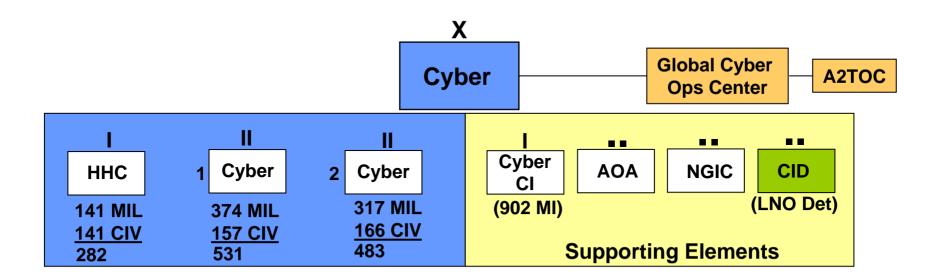


...Intelligence Related Security Force Assistance FM 3-07/FM 3-07.1



AOA and the 902nd conduct missions under Army G-2X Technical Control; ASCC has OPCON of assigned/apportioned elements. For nationally coordinated missions, ASCC is in a supporting role with advisory tasking and full operational insight through CI/HUMINT Coordination Element (CHCE) embedded in ASCC G2X.

(Proposed) Cyber Bde (INSCOM)



Capabilities:

- > Leverages the SIGINT Enterprise
- Support Cyberspace Ops (CNE,CNA,CND)
- > Close Access CNE, CNA
- > Remote Cyberspace Ops ISO CNE, CNA, CND
- > Tool/Capability Testing & Development
- > Army SAP Development, Testing & Employment
- ➤ Army Cyber C2, Integration, Planning, Targeting and Cyber Ops Coordination

Mission: The Cyber Brigade (Mf) conducts cyberspace operations in support of Army, JTF, COCOM, and National cyber requirements; provides embedded remote tailored access and expeditionary cyber support, expeditionary companies, regionally arrayed Cyber Detachments, close access and downward reinforcing capabilities to the tactical force, dedicated support to the CND through NSA/IAD and CYBERCOM structures.

<u>Command & Control (C2)</u>: Assigned to INSCOM (Army Cryptologic Component Commander)

BCT MI Capabilities

Current

Strategy

Company Intelligence Support Team (CoIST)	TAA 12-17: • 165 x 35F Soldier (1 per Maneuver Co)	 • 165 x 3 Soldier Teams - 2 x 35F Intel Analysts - 1 x 35M HUMINT Soldier
Multi-functional Teams (MfT)	None	• 75 x 8 Soldier Multi-functional Teams (MfT)
HUMINT	• 30 x HUMINT Teams • 15 x Operational Mgmt Teams (OMT)	 75 x 4 Soldier Teams Integrated into MfT 15 x Operational Management Teams (OMT)
SIGINT	• 45 x SIGINT Teams	- 75 x 4 Soldier Teams Integrated into MfT
Cryptologic Support Team (CST)	• 15 x 3 Soldier Teams	• 15 x 5 Soldier Teams
Document & Media Exploitation (DOMEX)	TAA 12-17: • 15 x 4 Soldier Teams	• 15 x 4 Soldier Teams
Shadow UAS	• 30 x 18 Hour Orbits	• 45-48 x 22-24 Hour Orbits

Division/Corps MI Capabilities Current Strategy

		37				
MI Brigades	• 1 x Battlefield Surv. Brigade (BfSB) (2 x MI Bns)	• 2 x MI Brigades (Mf) (4 x MI Bns (Mf))				
Multi-functional Teams (MfT)	• 5 x 12 Soldier MfTs (HUMINT + SIGINT)	• 32 x 10 Soldier Multi-functional Teams (MfT) (All-Source + HUMINT + SIGINT)				
HUMINT	• 5 x 5 Soldier Teams (Integrated into MfT)	- 32 x 4 Soldier Teams Integrated into MfTs- 4 x Operational Management Teams (OMT)				
SIGINT	• 5 x 5 Soldier Teams (Integrated into MfT)	- 32 x 4 Soldier Teams Integrated into MfT- 4 x Cryptologic Support Teams (CST)				
Interrogators	• None	 8 x Interrogation Platoons 4 x Div Holding Areas and 2 x Theater Intern. Facilities 4 x Collection Management Fusion Cells 				
Counter- Intelligence (CI)	• None	• 4 x OMT • 36 x 4 Soldier CI Teams				
Doc & Media Exploit (DOMEX)	• None	• 8 x 5 Soldier DOMEX Teams (Attached from 203 rd TECHINT Bn)				
Tech Support Company (TSC)	• 1 x TSC with Communications Only; <u>No</u> Digital Video Broadcast- Return Channel Signal (DVB-RCS)	• 2 x TSC Comms Packages w/Digital Video Broadcast- Return Channel Signal (DVB-RCS); 2 x TSC Unmanned, Long Dwell UAS ISR, Multi-INT Long Range Surveillance (LRS); SIGINT, IMINT (FMV/HD/EO/IR), SAR, GMTI, TECH HUMINT; Target Tracking Locating (TTL); Advanced Robotic Sensors; Unattended Ground Sensors (UGS)				

ECB/Aerial Layer MI Capabilities

Current

Strategy

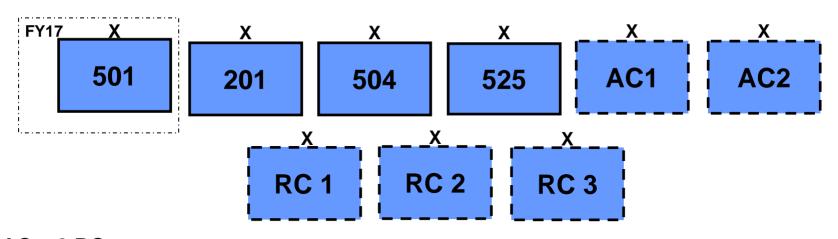
C2 of Corps Enablers Across Battlespace	• None	• 2 x Multi-functional MI Brigades (MIB) (Mf) to C2 all Operational MI Forces in the Corps Battlespace above BCT level, to Include Joint and Combat Support Agency (CSA) Enablers (NSA, DIA, CIA, NGA)
Interrogation Battalions	• 1 x AC <u>or</u> • 1 x USAR Joint Interrogation Debriefing Center (JIDC)	• 1 x ARNG Interrogation Battalion • Interrogation Operations to Support a Theater Internment Facility (TIF)
Aerial Exploitation Brigade (AEB) HQ	None INSCOM G-3 Managed Capability Based Rotations	• 1 x C2 Headquarters (AC or RC Brigade) as Required
Aerial Exploitation Battalions (AEB)	• 1 x AC Battalion	• 1 x AC Battalion • 1 x ARNG Battalion
Aerial Layer	Multiple Manned C-12 GUARDRAIL Common Sensor (GRCS) Baselines (SIGINT Only) TF ODIN Capabilities	Manned/Unmanned Mix of Platforms Delivering HD EO/IR FMV, SIGINT (Aerial Precision Geolocation (APG), Ground Moving Target Indicator (GMTI), Wide Area Imagery (WAMI), Synthetic Aperture Radar (SAR), Ground Penetrating Radar (GPR), Long Endurance Multi-INT Vehicle (LEMV) Wide Band Robust Comms (X, Ka, C Band) [See Aerial Layer Options 1-5]
Cyber	• 744 th MI Bn (Prov) • 1 st IO Bn (CND)	• 2 x 50 Soldier Close Access Companies (100 Soldiers per Rotation)

ARFORGEN Sustainment

	Today's Demand	1:2 Supply Thru FY 11	1:3 Supply Beyond FY 11
CORPS Corps Headquarters	1	1	1
DIV Division Headquarters	4	5	4
BCT Brigade Combat Team	26	20	15
Combat Aviation Brigade	6	5	4
Fires Brigade	3	3	3
Intelligence Brigade	2	2	2
X Engineer/ Maneuver Enhancement	5	5	4
X SUST Sustainment Brigade	7	(AC) and 7 BfSB HQ/B	ns in 6
MP Military Police Brigade	2	Compo 2/3 (RC) ar Insufficient to Susta ARFORGEN Requirem	ain 2
CA Civil Affairs Brigade	1	3	3

Source: Army Enterprise Task Force

MIB (Mf) ARFORGEN Rotation Analysis





AC1	AC2	AC3	AC4	AC6	AC2	AC3	AC4	AC5	AC1	AC3
RC1	RC2	RC3	AC5	AC1	RC1	RC2	RC3	AC6	AC2	RC1

$5 AC + 501^{st} + 3 RC$

AC1	AC2	AC3	AC4	AC1	AC3	AC4	AC5	AC1	AC3	AC5
RC1	RC2	RC3	AC5	AC2	RC1	RC2	RC3	AC2	AC4	RC1

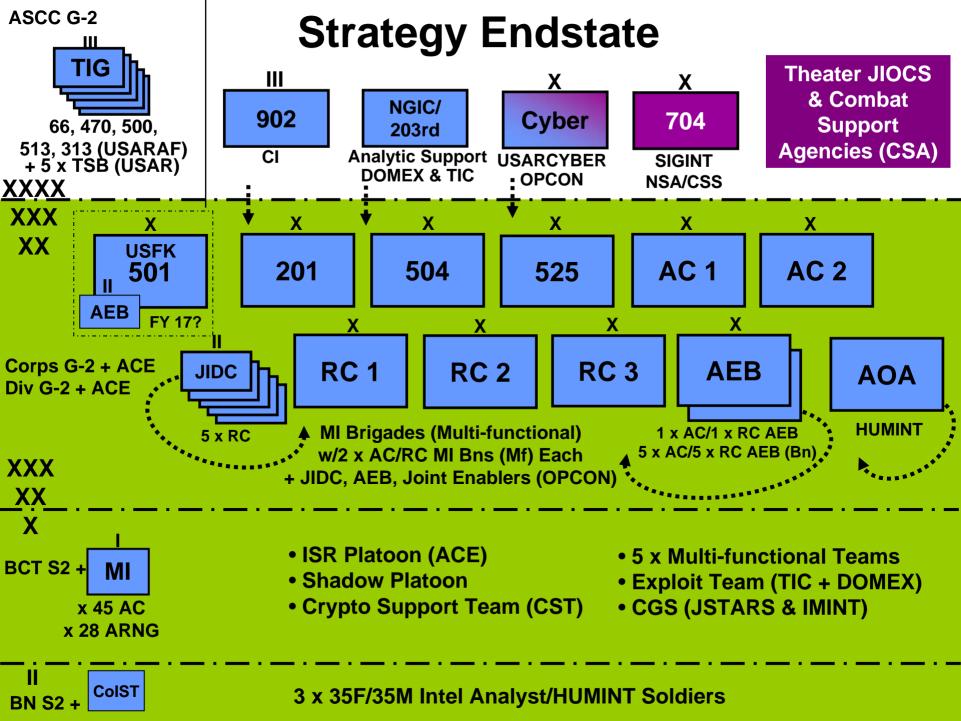
4 AC + 501st + 3 RC

AC1	AC2	AC3	AC4	AC2	AC4	AC1	AC2	AC3	AC4	AC1
RC1	RC2	RC3	AC1	AC3	RC1	RC2	RC3	RC1	RC2	RC3

4 AC + 501st + 2 RC

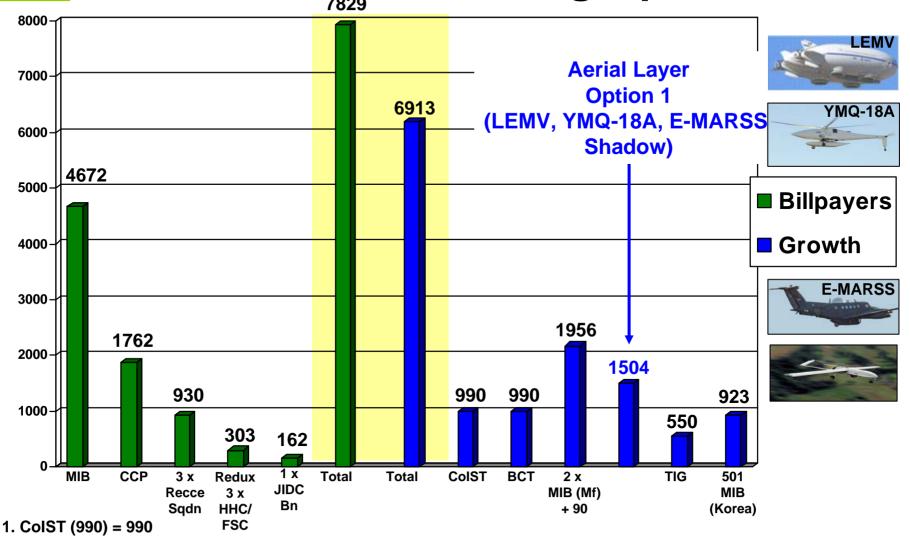
AC1	AC2	AC3	AC1	AC3	AC1	RC2	AC3	AC1	AC2	AC3
RC1	RC2	AC4	AC2	AC4	RC1	AC2	AC4	RC1	RC2	RC1

Steady State
AC 1:3
RC 1:5
Surge
AC 1:2
RC 1:4
Surge
AC 1:1
RC <1:4



+916

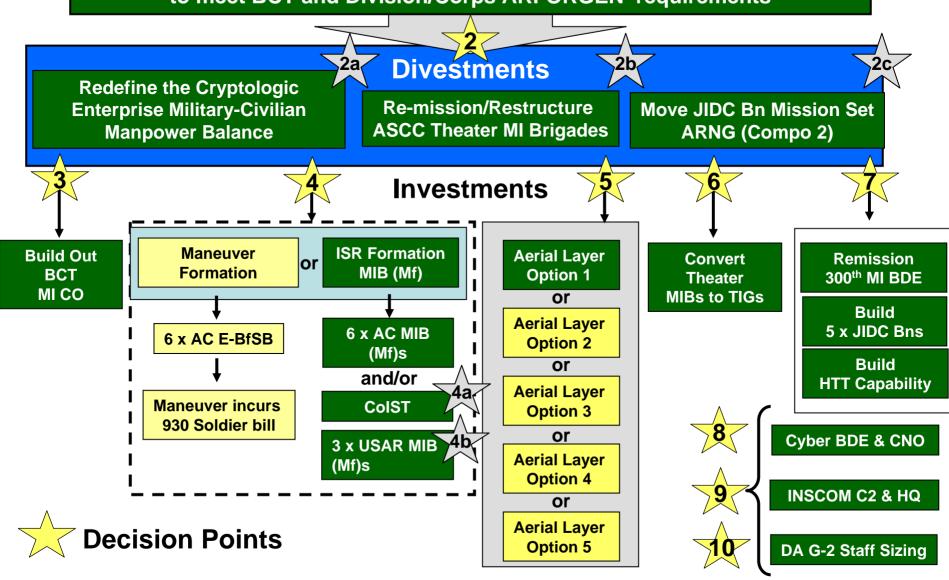
AC MI Force Generating Options



- 2. CoIST (990) + BCT Enhancements (990) = 1980
- 3. CoIST (990) + BCT Enhancements (990) + 1 x MIB (1956) = 3936
- 4. CoIST (990) + BCT Enhancements (990) + 1 x MIB (1956) + Aerial Layer (1504) = 5440
- 5. CoIST (990) + BCT Enhancements (990) + 1 x MIB (1956) + Aerial Layer (1504) + TIG (550) = 5990
- 6. CoIST (990) + BCT Enhancements (990) + 1 x MIB (1956) + Aerial Layer (1504) + TIG (550) + Korea (923) = 6913

Decision Support Template

Generate modular multi-functional (Mf) MI brigades and reinforce BCT MI companies with core intelligence capabilities and capacity to meet BCT and Division/Corps ARFORGEN requirements



The Bottom Line

This MI Force Rebalancing Strategy optimizes <u>core</u>
<u>intelligence capabilities</u> in support of <u>BCT and</u>
<u>Division/Corps full-spectrum operations</u> on a sustained
Army Force Generation (ARFORGEN) cycle.

Strategy to Rebalance the MI Force:

- ✓ Reinvests 19% of Compo 1 MI Force from EAC to ECB
- ✓ Meets force sizing & core capabilities identified by TRADOC & OSD
- ✓ Balances Army MI Force manning (Compo 1-3) to perform mission sets in ARFORGEN rotational force packages
- ✓ Provides the flexibility to support a fourth Corps Headquarters
- ✓ Transitions existing theater MI Brigades (MIB) to Theater Intel
 Groups (TIG), includes a TIG to support USARAF HQ planning
- ✓ Builds significant CNO (CNE/CNA) capability to support Army Cyber Command



A Strategy to Rebalance the Army MI Force

Bounding the Challenge of Intelligence Support to Army Full-spectrum Operations...

As of: 15 Dec 09